(web) maps

@ramiroaznar Madrid, March 15th 2017

maps

maps

maps are spatial structures maps are made of tables maps are science, technology and art

map design

know your data, tools and audience map projections perception of visual cues design principles for thematic maps

types of maps

dot distribution maps graduated symbol maps choropleth maps flow and network maps cartograms



A map is a symbolic depiction emphasizing relationships between elements of some space, such as objects, regions, or themes.

~ Wikipedia



56

8 Remain %

1

id	geom	col_category	col_numeric	col_boolean	col_date
1	Point	burglary	1200	true	10-1-2017 08:04
² map	Point S are m	assault ade of t	ables	false	23-2-2017 17:21
3	Point	robbery	600	false	24-2-2017 09:45
4	Point	assault	4000	true	30-3-2017 21:33
5	Point	burglary	240	true	10-2-2017 11:08
6	Point	robbery	900	true	10-2-2017 16:13
n	Point	assault	2700	true	10-2-2017 04:36

maps are science, technology and art

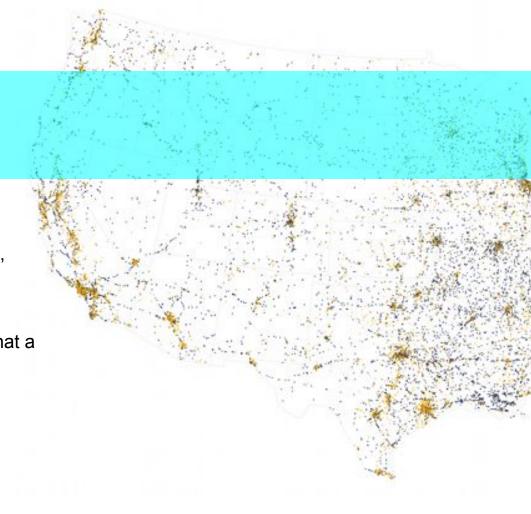


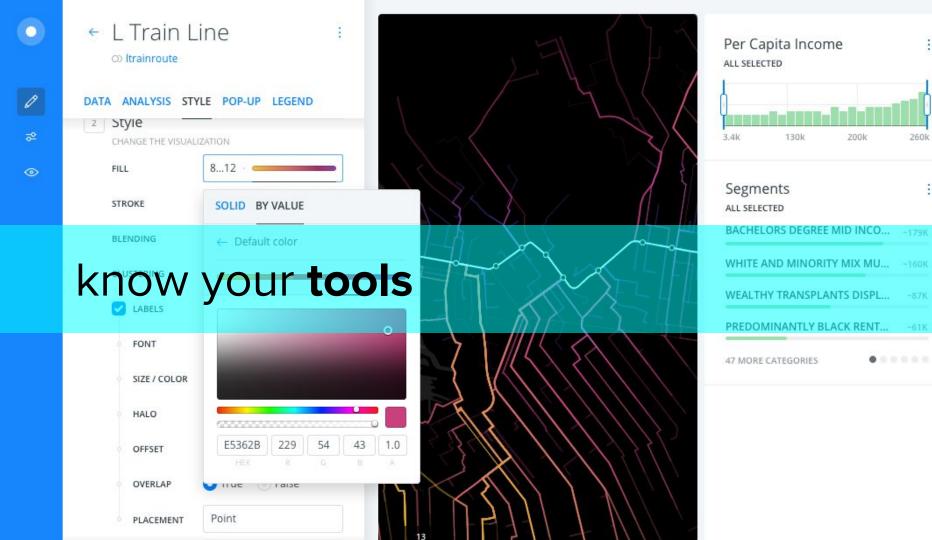
know your data

Data is more than numbers, and to visualize it, you must know what it represents. Data represents real life.

It's a snapshot of the world in the same way that a photograph captures a small moment in time.

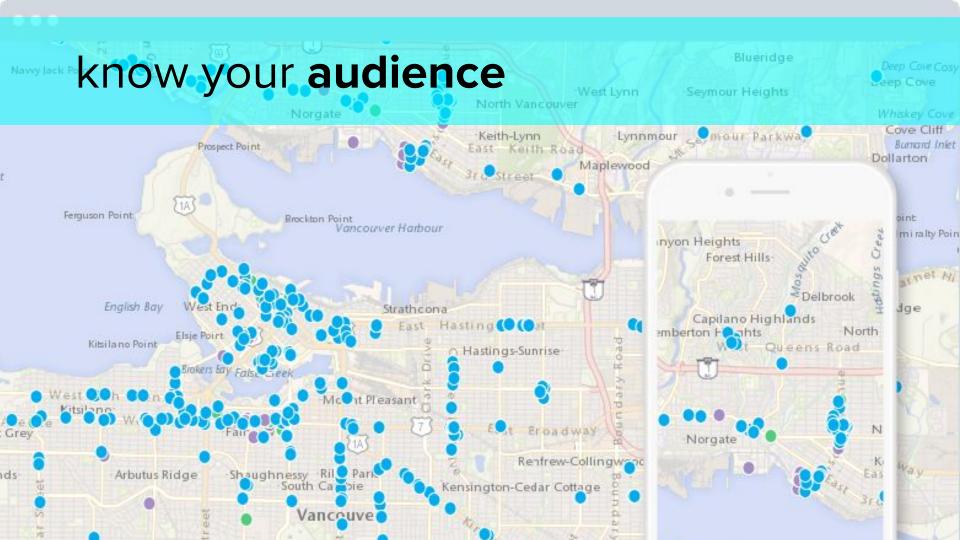
~ Nathan Young, Data Points





260k

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map projections

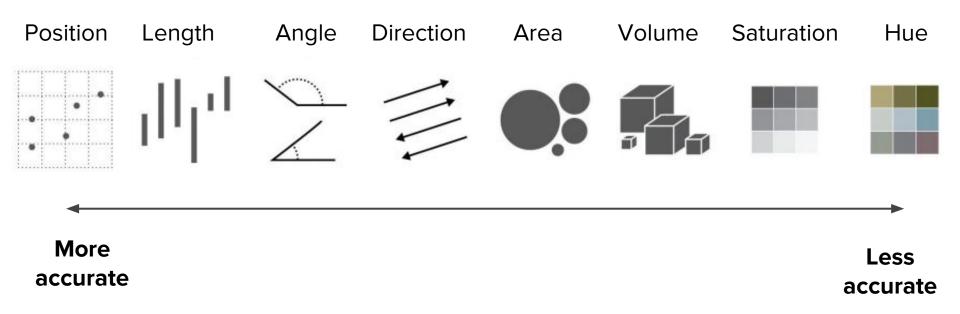
Map projections are mathematical transformations of the curved three-dimensional surface of the globe onto a flat, two-dimensional plane.

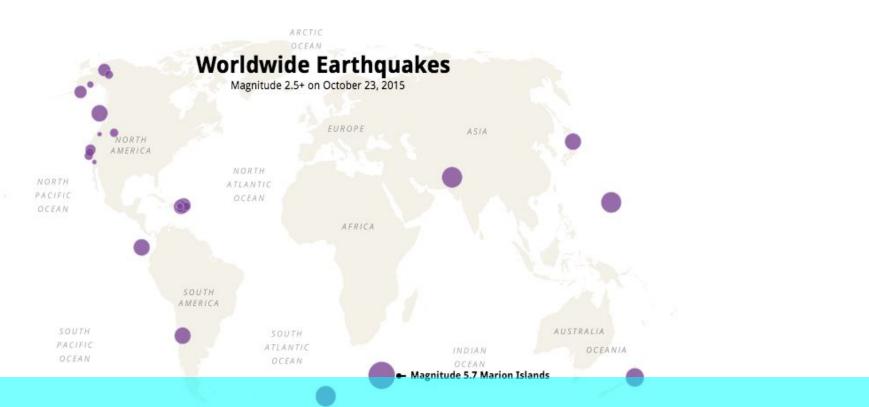
All map projections involve transformations that result in distortions of one or more of the geometric properties of angles, areas, shapes and directions.

~ Isabel Meirelles, Design for Information



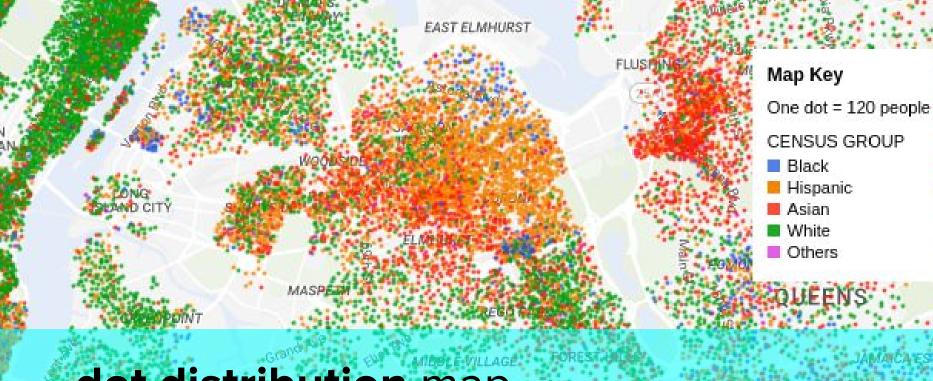
perception of visual cues





design principles for thematic maps

Data Source: earthquake.usgs.gov



dot distribution map

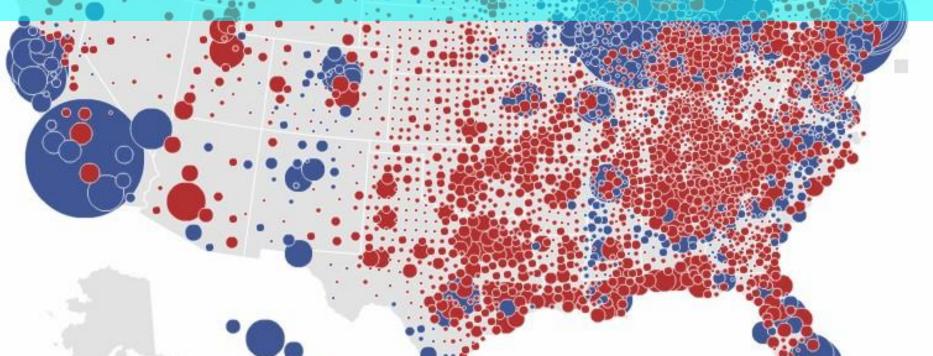
GLENDALE Myrtle Size

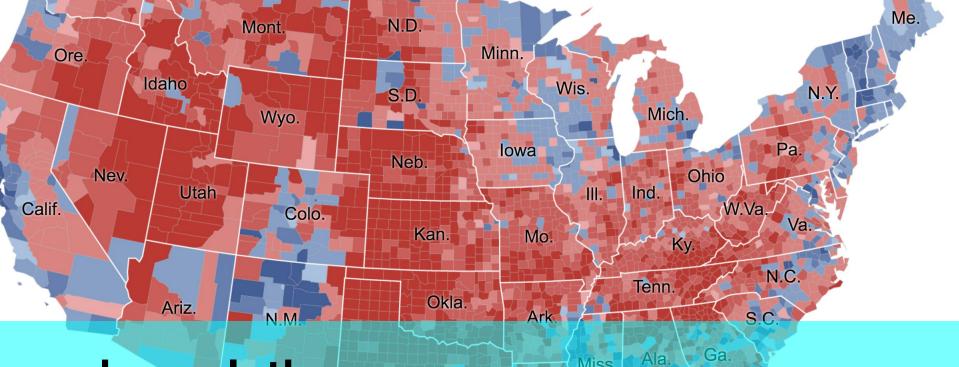
144

Map key

Circle size is proportional to the amount each county's leading candidate is ahead.

graduated symbol maps





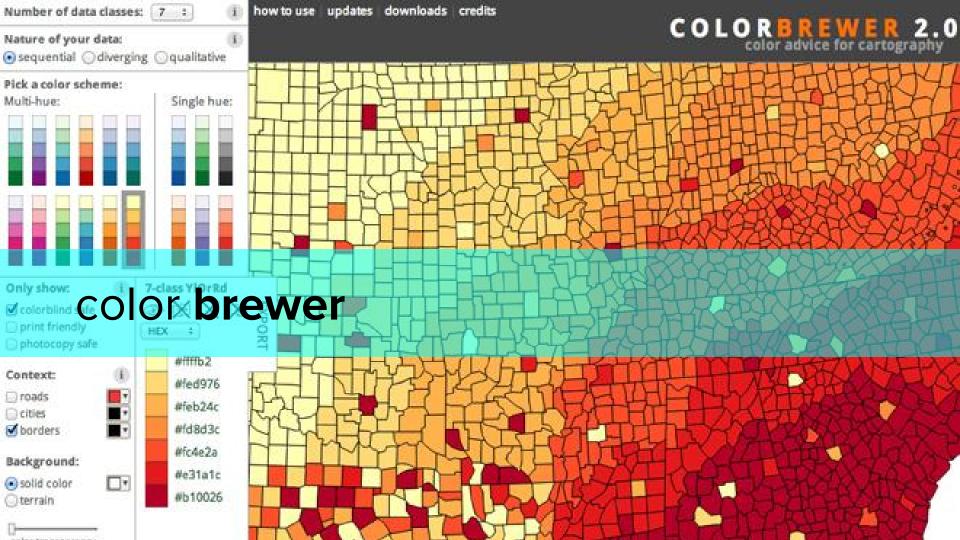
Miss.

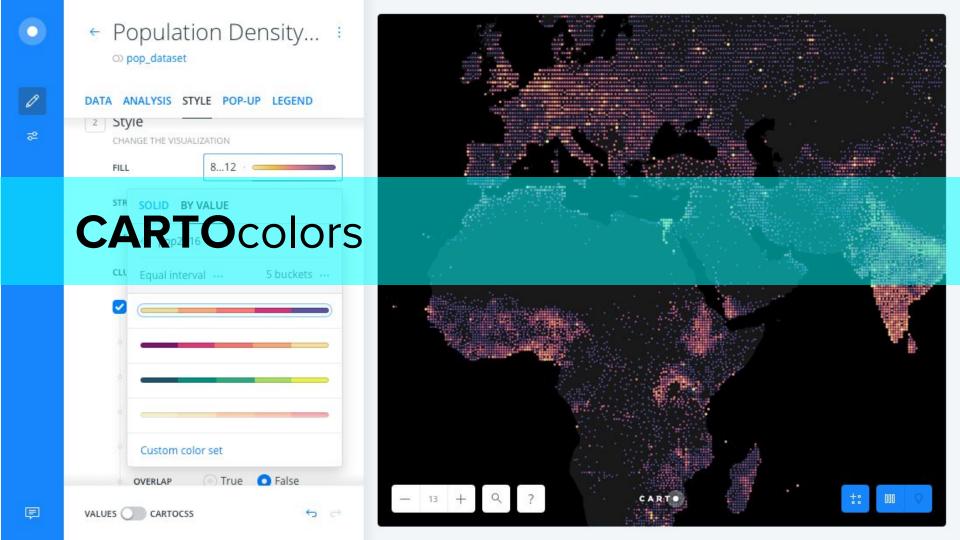
La.

choropleth maps

Alaska







flow and network maps



cartograms



